

```
public class book 102
{
    string Title; 104
    string Author; 106
    chapter[ ] chapters; 108
}
public class chapters 110
{
    int chapternum; 112
    string chaptertitle; 114
    string text; 116
}
```

```
100
120
public class book 122
{
    Moby Dick 124
    Melville 126
}

public class chapters 128
{
    1 130
    Loomings 132
    Call me Ishmael.... 134
}

public class chapters 136
{
    2 138
    The Carpet-Bag 140
    I stuffed a shirt.... 142
}
```

Fig. 1a
Background

Fig. 1b
Background

```
<book>
  <title>Moby Dick</title>
  <author>Melville</author>
  <chapters>
    <chapter>
      <chaptnum>1</chaptnum>
      <chapttitle>Loomings</chapttitle>
      <text>Call me Ishmael....</text>
    </chapter>
    <chapter>
      <chaptnum>2</chaptnum>
      <chapttitle>The Carpet-Bag</chapttitle>
      <text>I stuffed a shirt or two....</text>
    </chapter>
  </chapters>
</book>
```

Fig. 2
Background

302 Infoset: Envelope

{

304 Children // Envelopes have the following child XML elements

{

306 ActionHeader [property ActionHeader]308 Version [property Version]

}

}

310 Infoset: ActionHeaderObj

{

312 Children // ActionHeaderObjs have the child XML elements:

{

314 Action [property ActionUri]316 HeaderName [property Name]

}

318 Attributes // ActionHeaderObjs have the XML attributes:

{

320 ID [property ID]

}

}

Infoset Model

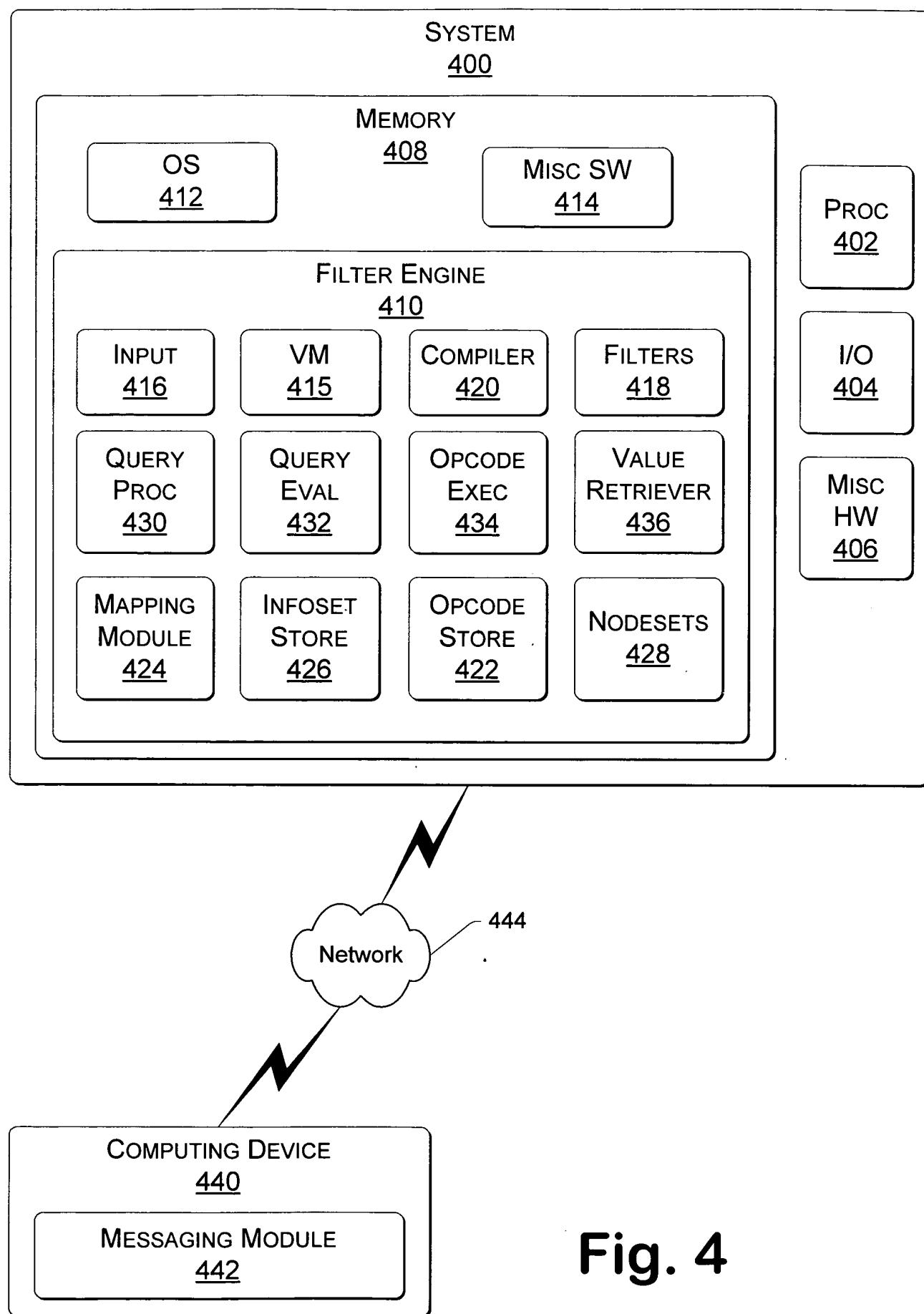
300**Fig. 3a**

```
332 <Envelope>
      ↗342
  334 <ActionHeader ID = >
        336 <Action></Action>
        338 <Headername></Headername>
        </ActionHeader>
  340 <Version></Version>
</Envelope>
```

XML Template

330

Fig. 3b

**Fig. 4**

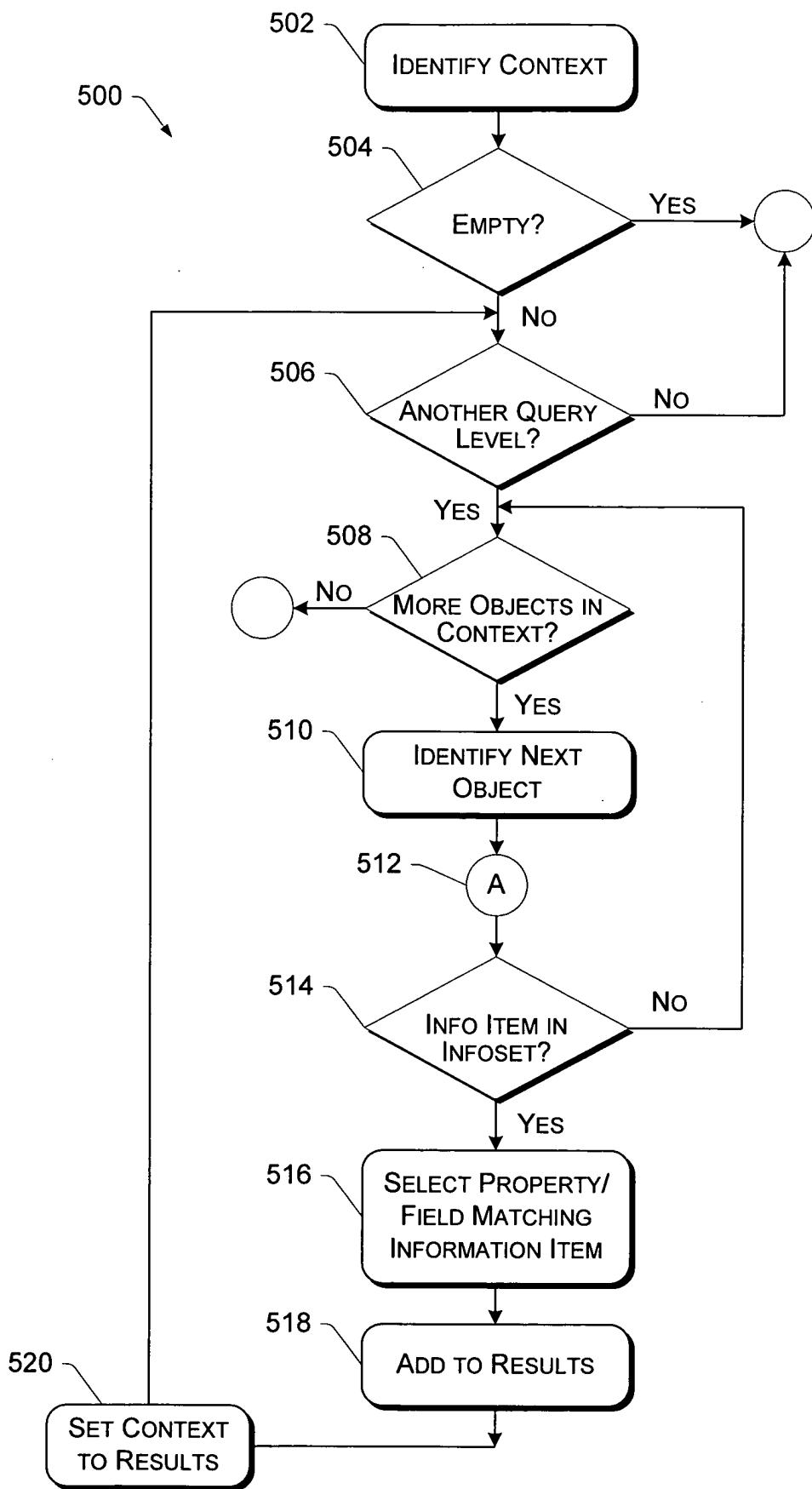
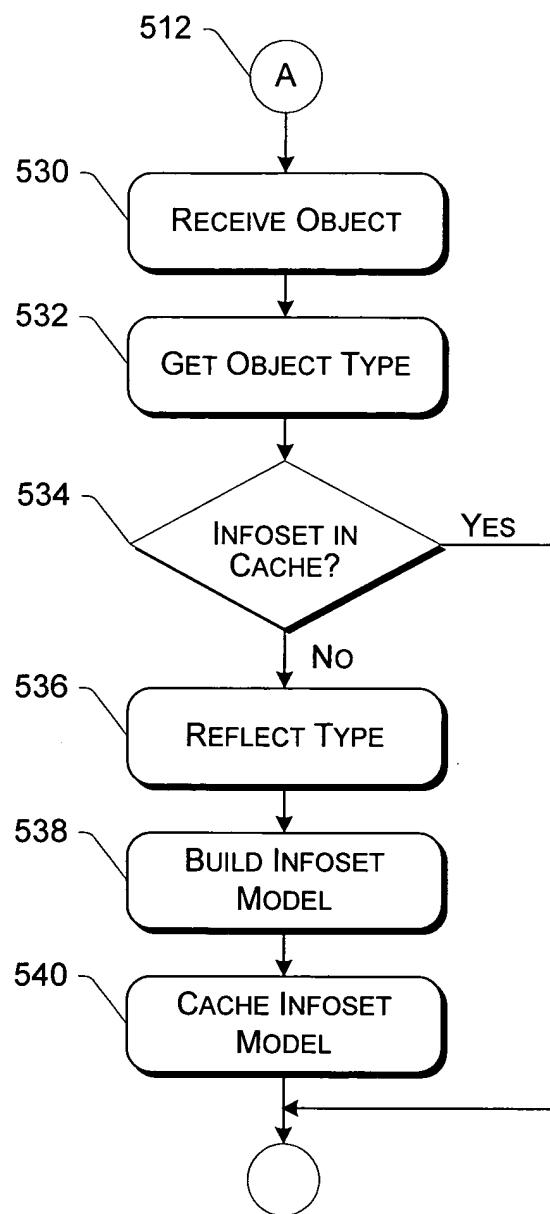


Fig. 5



**Fig. 5
(Cont'd)**

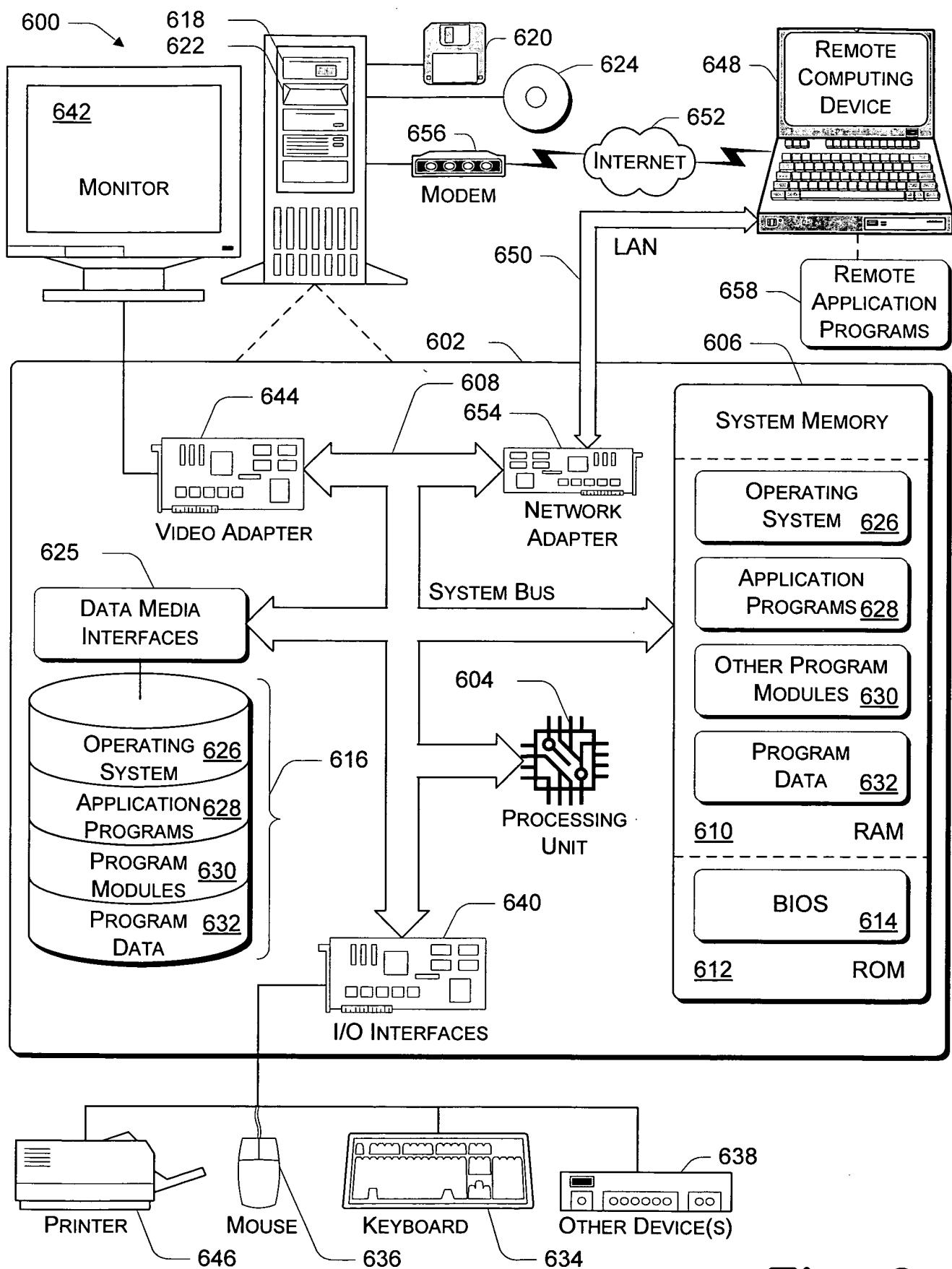


Fig. 6